

African Journal of Ecology



Volume 32, 1994

edited by F. I. B. Kayanja

Published for the East African Wild Life Society

by Blackwell Scientific Publications

Oxford · London · Edinburgh · Boston · Melbourne · Berlin · Paris · Vienna

Published for the East African Wildlife Society
by Blackwell Scientific Publications

Editorial Offices:

Osney Mead, Oxford OX2 0EL
25 John Street, London WC1N 2BL
23 Ainslie Place, Edinburgh EH3 6AJ
Suite 500, 5th floor, 238 Main Street, Boston MA 02142, U.S.A.
54 University Street, Carlton, Victoria 3053, Australia

Affiliated Editorial Offices:

Blackwell Wissenschafts-Verlag, Meinekestrasse 4, D-1000 Berlin 15, Germany
Librairie Arnette SA, 4 rue Casimir-Delavigne, 75006 Paris, France
Blackwell MZV, Feldgasse 13, A-1238 Vienna, Austria

© 1994 Blackwell Scientific Publications Ltd. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Blackwell Scientific Publications Ltd for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$10.50 per copy is paid directly to CCC, 27 Congress Street, Salem, MA 01970, U.S.A. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Editor. 0141-6707/94 \$10.50.

ISSN 0141-6707

Printed and bound in Great Britain by Henry Ling Ltd., at the Dorset Press,
Dorchester, Dorset

CONTENTS

VOL. 32, NO. 1, MARCH 1994

- 1 *S. J. Thirgood, R. J. Nefdt, R. C. V. Jeffery and B. Kamweneshe*: Population trends and current status of black lechwe (*Kobus*: Bovidae) in Zambia
- 9 *B. N. Kigomo*: The rates of diameter increment and age-diameter relationship of *Brachylaena huillensis* O. Hoffm in semi-deciduous forests of central Kenya
- 16 *Simon A. R. Mduma and A. R. E. Sinclair*: The function of habitat selection by oribi in Serengeti, Tanzania
- 30 *Craig S. Sorley and David E. Andersen*: Raptor abundance in south-central Kenya in relation to land-use patterns
- 39 *Jude M. Mathooko and Kenneth M. Mavuti*: Factors influencing drift transport and concentration in a second-order high altitude tropical river in central Kenya
- 50 *Clare D. FitzGibbon and Galen B. Rathbun*: Surveying *Rhynchocyon* elephant-shrews in tropical forest
- 58 *Alex Chucks Chindah and Anwaini Osuamkpe*: The fish assemblage of the lower Bonny river, Niger Delta, Nigeria

Notes and Records

- 66 *D. Sheil*: Naturalized and invasive plant species in the evergreen forests of the East Usambara Mountains, Tanzania
- 72 *A. Tembo*: Population characteristics of the vervet monkey in the Mosi-Oa-Tunya National Park, Zambia
- 75 *F. X. Mkanda*: Conflicts between hippopotamus (*Hippopotamus amphibius* L.) and man in Malawi
- 80 *G. Achuthan Nair, Fathi Ali Attia and Najia Hamad Saeid*: Food preference, feeding and growth rates of the woodlouse *Porcellio scaber* Latreille, 1804 (Isopods, Oniseidea, Porcellionidae)
- 85 **Book Reviews**

VOL. 32, NO. 2, JUNE 1994

- 89 *F. Michelmore, K. Beardsley, R. F. W. Barnes and I. Douglas-Hamilton*: A model illustrating the changes in forest elephant numbers caused by poaching
- 100 *P. J. Funston, J. D. Skinner and H. M. Dott*: Seasonal variation in movement patterns, home range and habitat selection of buffaloes in a semi-arid habitat
- 115 *A. J. Plumptre*: The effects of trampling damage by herbivores on the vegetation of the Parc National des Volcans, Rwanda

- 130 *D. T. Williamson*: Social behaviour and organization of red lechwe in the Linyanti Swamp
- 142 *Timothy W. Oloo, Robert Brett and Truman P. Young*: Seasonal variation in feeding ecology of black rhinoceros (*Diceros bicornis* L.) in Laikipia, Kenya
- 158 *A. N. Makanya and J. N. Maina*: The morphology of the intestine of the insectivorous horseshoe bat (*Rhinolophus hildebrandti*, Peters): a scanning electron and light microscopic study

Notes and Records

- 169 *Emmanuel Asuquo Obot*: Succession and climax in the Guinea savanna: an alternative hypothesis
- 175 **Book Reviews**

VOL. 32, NO. 3, SEPTEMBER 1994

- 177 *R. F. W. Barnes, K. L. Barnes and E. B. Kapela*: The long-term impact of elephant browsing on baobab trees at Msembe, Ruaha National Park, Tanzania
- 185 *Herbert H. T. Prins, Henk P. van der Jeugd and Jan H. Beekman*: Elephant decline in Lake Manyara National Park, Tanzania
- 192 *Adrian L. V. Davis*: Habitat fragmentation in southern Africa and distributional response patterns in five specialist or generalist dung beetle families (Coleoptera)
- 208 *Joseph Ikechukwu Muoghalu, Olalekan Mujahid Adeleye and Rotimi Tunde Balogun*: Litter decomposition and inorganic dynamics in a secondary rain-forest at Ile-Ife, Nigeria
- 222 *Richard G. Ruggiero and J. Michael Fay*: Utilization of termitarium soils by elephants and its ecological implications
- 233 *Stuart A. Marks*: Local hunters and wildlife surveys: a design to enhance participation

Notes and Records

- 255 *P. J. Stephenson*: Small mammal species richness in a Madagascar rain forest
- 259 *Jude M. Mathooko and Kenneth M. Mavuti*: Diel dynamics of organic drift transport in a second-order, high-altitude river in Kenya

VOL. 32, NO. 4, DECEMBER 1994

- 265 *R. R. Hartley and R. J. Douthwaite*: Effects of DDT treatments applied for tsetse fly control on the African goshawk in north-west Zimbabwe
- 273 *Mary J. N. Okwakol*: The effect of change in land use on soil macrofauna communities in Mabira Forest, Uganda

- 283 *James C. Deutsch and Angelo A. Ofezu*: Uganda kob reproductive seasonality: optimal calving seasons or condition-dependent oestrus?
- 296 *B. N. Kigomo, S. R. Woodell and P. S. Savill*: Phenological patterns and some aspects of reproductive biology of *Brachylaena huillensis* O. Hoffm
- 308 *Christopher P. Kofron and Angela Chapman*: Reproduction and sexual dimorphism of the West African fruit bat, *Epomops buettikoferi*, in Liberia
- 317 *M. Beeson and S. E. G. Lea*: Mature leaf chemistry of two Afro-montane forests in relation to feeding by forest guenons (*Cercopithecus* spp.)

Notes and Records

- 327 *Knud Tybirk, Las H. Schmidt and Thure Hauser*: Notes on soil seed banks of African acacias
- 331 *S. Yeboah*: Aspects of the biology of two sympatric species of monitor lizards *Varanus niloticus* and *Varanus exanthematicus* (Reptilia, Sauria) in Ghana
- 334 *I. M. Hashim*: Group size, weight and some measurements of Clapperton's francolin (*Francolinus clappertoni*) in South Kordofan, Sudan
- 337 *J. M. Dangerfield and S. K. Kaunda*: Millipede behaviour in a savanna woodland habitat in south-east Botswana
- 342 *Ngonidzashe A. G. Moyo*: An analysis of fish yield predictions in African lakes and reservoirs
- 348 *N. A. Din*: A note on red-headed quelea nests usurped by the village weaver and the chestnut-and-black weaver
- 351 Author index to Volume 32